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November 25, 1994

DISTRIBUTION VARIABLE PHASE SHIFTER

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APPL-NO: 05110284

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ASSIGNEE-AT-ISSUE: SUMITOMO ELECTRIC IND LTD

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IPC-MAIN-CL: H 01P001#18

IPC ADDL CL: H 01P005#12, H 01P005#18, H 01Q003#34, H 01Q011#4

CORE TERMS: h1-h4, plungers, s1-s4, phase, l1-l4, constitution, distributed, synthetic, supplied

ENGLISH-ABST:

PURPOSE: To provide a distribution variable phase shifter which can distribute the electric power and then can continuously vary the phases of distributed signals in a simple and highly reliable constitution.

CONSTITUTION: The input signals are distributed to hybrid circuits H1-H4 by a distributor 1, and the circuits H1-H4 produce two different types of signals having a 90-degree phase difference and supply these signals to the slot line pairs L1-L4. These line pairs L1-L4 are provided with slidable short plungers S1-S4 respectively. The plungers S1-S4 are engaged in common to a control lever 60 which can freely turn around a rotary shaft 65. Then the signals supplied to the line pairs L1-L4 from the circuits H1-H4 are completely reflected by the plungers S1-S4 and then supplied again to the circuits H1-H4. Thus the circuits H1-H4

synthesize these signals together and the synthetic signals are sent to an output terminal B. Then these synthetic signals are turned into the phase signals which are accordant with positions of the plungers S1-S4 respectively.

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